



West Virginia Correctional Population Forecast 2004-2014

A Study of the State's Prison Population

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WV in a National Context

- According to the Bureau of Justice Statistics (BJS), West Virginia had one of the smallest prison populations in the nation and the smallest among southern states in 2003.
 - > WV prison population ranked 39th in the nation
- Compared to other states, WV has one of the lowest incarceration rates each year.
 - ➤ WV ranked 40th in the nation at 260 inmates per 100,000 residents in 2003
- WV's rate of incarceration continues to be considerably less than the national average.
 - ➤ National rate of incarceration = 482 per 100,000 persons in 2003, compared to 260 inmates in WV

WV in a National Context

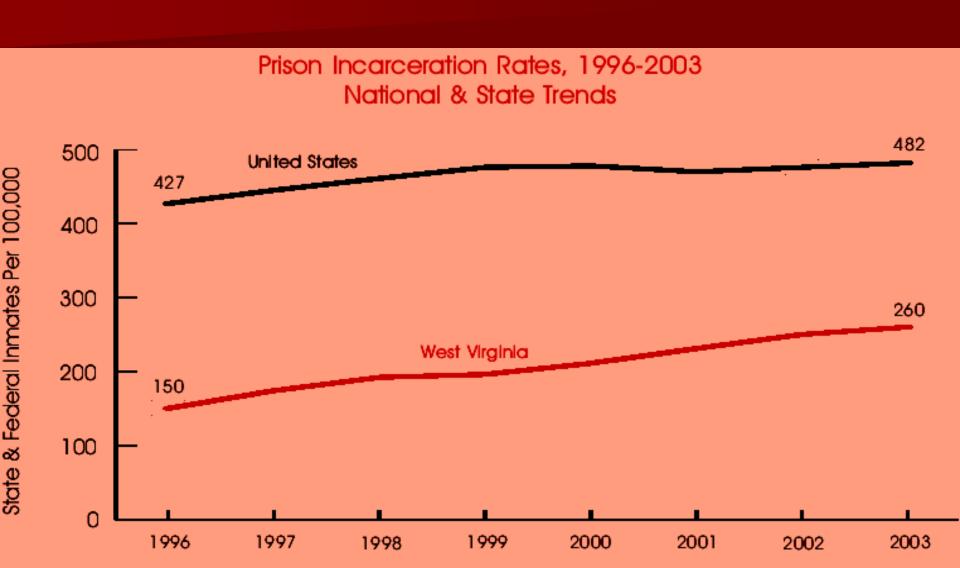
- Violent offenders comprise a larger proportion of the prison population, compared to the national average.
- The percentage of property offenders confined in WV is 7.9% higher than recent national estimates.
- Nationally, the percentage of offenders confined for drug offenses is more than double the percentage in WV.

Percentage of Sentenced Inmates by Broad Offense Group (US vs WV)			
Broad Offense Group	<u>United States</u> 2001	<u>West Virginia</u> 2002	<u>West Virginia</u> 2004
Violent	49.3%	56.1%	52.2%
Property	19.3%	27.4%	27.2%
Drug	20.4%	7.4%	10.0%
Public Order	11.0%	9.2%	10.6%

WV in a National Context

- Similar to national trends, WV's rate of incarceration has continued to increase over recent years, but is growing at a faster pace compared to other states and the nation.
- According to the Bureau of Justice Statistics (BJS), West Virginia was ranked:
 - ➤ 3rd in average percent change in the state prison population between 1995-2003 at 8.3%
- Prison incarceration rates, 1996-2003
 - United States: 12.9% increase, from 427 to 482 inmates per 100,000 residents
 - West Virginia: 73.3% increase, 150 to 260 inmates per 100,000 residents

Prison Incarceration Rates, 1996-2003



Correctional Population Forecast Updates, 2001 & 2003

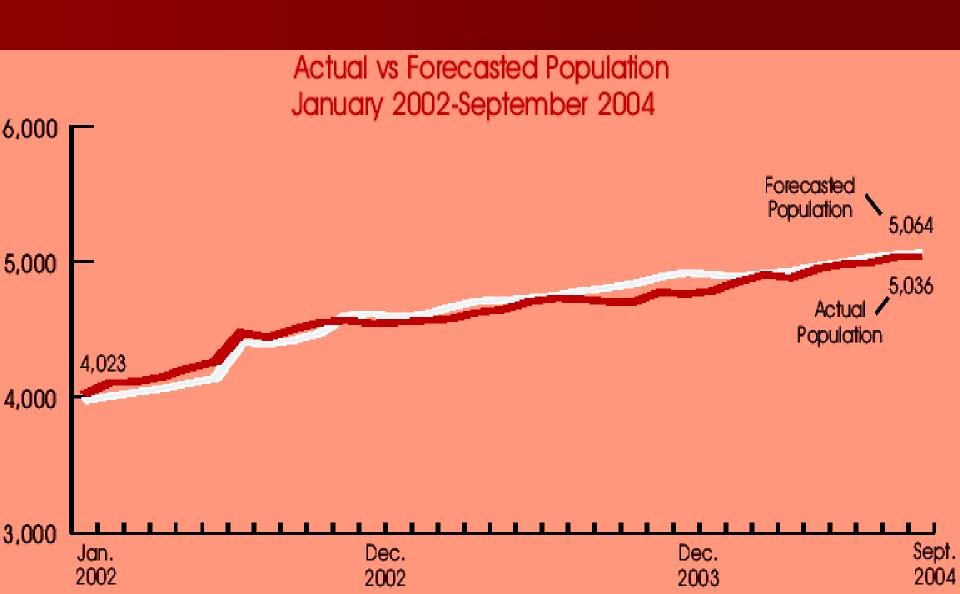
Purpose: To examine the accuracy of the forecasted population in relation to the actual population.

- Previous forecasted projections have been rather accurate, however, the potential for greater error increases with time.
- For any given month since January 2001, forecasted population estimates have been within +/- 3.4% of actual population counts.
- Correctional Population Forecast 2001 Update:
 - ➤ For December 2001:
 - Actual Population: 4,008
 - Forecasted Population: 3,934
 - Population difference: 74 inmates or 1.8%

Correctional Population Forecast Updates, 2001 & 2003

- Correctional Population Forecast 2003 Update:
 - ➤ For December 2003:
 - Actual Population: 4,758
 - Forecasted Population: 4,918
 - Population difference: -160 inmates or -3.4%
- Current Unpublished Estimates for 2004
 - ➤ For **September** 2004:
 - Actual Population: 5,036
 - Forecasted Population: 5,064
 - Population difference: -28 inmates or -0.6%

Forecast Performance, 2002-2004



Past and Current Forecast Projections for 2009

- We can also examine the "accuracy" of projections by comparing previous forecast estimates for a given year.
- This approach highlights the impact of continual changes in admission, stock, and release figures and illustrates the importance of re-assessing population growth.
- 2009 population projections by bi-annual report:
 - > Correctional Population Forecast, 2000-2010 = **5,723 inmates**
 - > Correctional Population Forecast, 2002-2012 = **6,260 inmates**
 - > Correctional Population Forecast, 2004-2014 = **6,010 inmates**

Actual Population Counts, 1993-2003

- Actual population counts, 1993-2003:
 - > December 1993: **2,110 inmates** (actual population)
 - > December 1998: **3,535 inmates** (actual population)
 - > December 2003: **4,758 inmates** (actual population)
- This translated into a 125.5% increase in the total number of inmates confined in WV's correctional system between 1993-2003.
- This is compared to an <u>actual average annual</u> growth rate of 8.5% between 1993-2003.
- This corresponded to an average of 265 additional inmates per year during this time period.

Correctional Population Forecast, 2004-2014

- Population estimates based on 2004-2014 forecast model:
 - September 2004: 5,036 inmates (actual population)
 - > December 2009: **6,010 inmates** (forecasted population)
 - > December 2014: **6,992 inmates** (forecasted population)
- This translates into a 38.8% increase in the total number of inmates confined in WV's adult correctional system between 2004-2014.

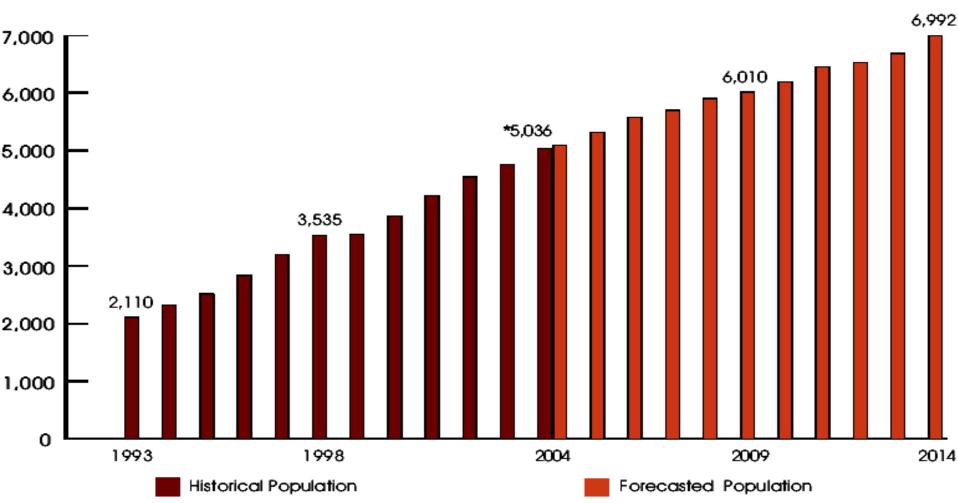
Correctional Population Forecast, 2004-2014

Current Figures: As of June 30,2004, DOC was responsible for a total of 4,955 inmates. Of these inmates 1,013 were housed in local/regional jails. While 3,942 inmates were located in a DOC facility.

- Thus, the DOC responsible population is forecasted to grow at an *average* annual growth rate of 3.2% over the next decade.
- This corresponds to an average of 190 additional inmates per year.
- Taking into account known error in forecast estimates since January 2001, we can expect the true average to fall between 183 and 197 additional inmates per a year over the next ten years.

Correctional Population Forecast, 2004-2014





Conclusions

- WV's rate of incarceration continues to grow at a rate greater than the national average and most other states.
- The DOC responsible population in WV is expected to increase over the next decade, but at a rate less than what was observed during the mid to late 1990's.
- Increases will continue, despite decreases in arrests for all major crime categories in recent years.
 - WV Incident-Based Reporting System, 2000-2003
 - Total Arrests in WV: 19,169 to 17,345 = -9.5%
 - Violent Crime Index Arrests in WV: 2,113 to 1,484 = -29.8%
 - Property Arrests in WV: 4,208 to 3,906 = -7.2%
 - NonIndex Arrests in WV: 12,848 to 11,955 = -7.0%
- Comparisons of actual population counts versus forecast estimates have shown previous projections to be rather accurate.

Conclusions

- Violent offenders comprised 52.2% of state inmates in 2004, compared to 49.3% nationally in 2001.
- Violent offenders, however, constituted a smaller proportion of WV inmates in 2004 compared to 2002 figures.
- In terms of admissions into DOC facilities, the proportion of violent offenders declined as nonviolent offenders increased between 1998-2003.